

**VOLTAGE CONTROLLED VARACTOR OSCILLATOR  
WITH SENSITIVITY SPREAD**

**Abstract of the Disclosure**

The invention relates to a voltage controlled oscillator comprising a resonator having an inductive circuit and a capacitive circuit whose oscillations are maintained by an active circuit, the capacitive circuit using varactors whose capacitance is adjusted by a control voltage acting in a differential mode with a biasing voltage. According to the invention, the capacitive circuit comprises several capacitive branches connected in parallel, controlled by a same control voltage, but biased by biasing voltages that are different from one branch to the next. The oscillator of the invention features in particular an oscillation frequency, which is much easier to control, and a considerably reduced phase noise.